

AUTHOR INDEX

- Ahmad, N., 397
- Bailey, G., 233
- Beaufort, D., 259
- Beck, M. S., 1
- Bergveld, P., 119, 309
- Chan, H. T., 361
- Conesa, J., 337
- de Bruijn, J. M., 259
- de Rooij, N. F., 59, 157
- Dražić, G., 407
- Duffy, C. J., 17
- Egashira, M., 349
- Ema, K., 291
- Fernández, A., 337
- Frith, B., 1
- Gardner, J. W., 361, 373
- Gernet, S., 59, 157
- Gilderman, V. K., 115
- González-Elipe, A. R., 337
- Greve, J., 119
- Hattori, S., 297
- Hetrick, R. E., 131
- Hickman, D., 17
- Hiirio, K., 285
- Hök, B., 389
- Hoogeboom, P. J., 259
- Huijsing, J. H., 259
- Iwanaga, H., 349
- Janata, J., 415
- Janata, P., 415
- Josowicz, M., 415
- Kanda, Y., 247
- Kanehara, N., 349
- Karube, I., 297
- Kerkvliet, H., 195
- Ko, W. H., 207
- Kohl, D., 71
- Kooyman, R. P. H., 119
- Kopystynski, P., 239
- Kordić, S., 179
- Koudelka, M., 59, 157
- Kreit, D., 233
- Lampe, U., 269
- Lian-Zhong Yu, 221
- Lichtman, D., 397
- Manwell, J., 233
- Meijer, G. C. M., 195
- Min-Hang Bao, 149, 221
- Miyagi, H., 329
- Miyahara, Y., 329
- Moriizumi, T., 291
- Müller, J., 269
- Muñoz, A., 337
- Munuera, G., 337
- Nakamoto, T., 291
- Nooder, V., 195
- Obermeier, E., 239
- Omotoshio, O. J., 1
- Palguez, S. F., 115
- Parsons, P., 233
- Plaskowski, A., 1
- Potje-Kamloth, K., 415
- Reinhoudt, D. N., 309
- Richards, P., 233
- Sanz, J., 337
- Schasfoort, R. B. M., 119
- Sebata, M., 329
- Shimizu, Y., 349
- Shurmer, H. V., 361
- Skowronska-Ptasinska, M., 309
- Soria, J., 337
- Sperring, D. A., 33
- Streekstra, G. J., 119
- Sudhölter, E. J. R., 309
- Suzuki, M., 297
- Tamiya, E., 297
- Tenerz, L., 389
- Tirén, J., 389
- Trontelj, M., 407
- Tsukada, K., 329
- Unwin, J., 45
- van den Berg, A., 309
- van den Boom, J. M., 179
- van der Wal, P. D., 309
- van Drecht, J., 195
- van Gelder, R., 195
- van Oudheusden, B. W., 259
- Wakida, S., 285
- Walsh, P. T., 45
- Wei-Jia Qi, 149
- Xian-Ping Wu, 207
- Yamamura, K., 247
- Yamane, M., 285
- Yan Wang, 149, 221
- Ylilammi, M., 167
- Yokoyama, K., 297
- Yokoyama, M., 291
- Zemtsov, V. I., 115

SUBJECT INDEX

- Acoustically-driven cantilever
for gas sensing, 131
- Aerospace applications
optical displacement transducer for, 233
- Alcohols
application of discrimination techniques to, and tobaccos using tin-oxide sensors, 361
- Anisotropic etching
of (100) silicon, compensating corner undercutting in, 207
- Boron nitride
thin films for u.v.-sensor applications, 397
- Calcium chromite
Eu chromite doped with, for electrochemical O sensors, 115
- Cantilever
for gas sensing, acoustically-driven, 131
- Cantilever beam
batch-fabricated non-reverse valve with, manufactured by micro-machining of Si, 389
- Ceramic sensor elements
preparation and properties of, based on MgCr_2O_4 , 407
- Chromium
preparation and properties of ceramic sensor elements based on MgCr_2O_4 , 407
- Compton-scattered gamma photons
sensing system for non-destructive imaging using externally, 1
- Conductometry
exposure monitor for chlorinated hydrocarbons based on, using Pb phthalocyanine films, 45
- d.c. and a.c. behaviour
of ISFET, influence of immunological precipitate on, 119
- Discrimination techniques
application of, to alcohols and tobaccos using tin-oxide sensors, 361
- Earphones
Si microphones and, for hearing aids, 33
- Electrical and chemical requirements
for REFETs, may coincide, 309
- Electrical conduction
in solid-state gas sensors, 373
- Electrochemical cell
fabrication and characterization of planar, and its application as glucose sensor, 59
- Electrochemical encapsulation
for sensors, 415
- Electron mediators
micro glucose sensors using, immobilized on polypyrrole-modified electrode, 297
- Encapsulation
for sensors, electrochemical, 415
- Europium chromite
doped with Ca chromite for electrochemical O sensors, 115
- Exposure monitor
for chlorinated hydrocarbons based on conductometry using Pb phthalocyanine films, 45
- Fabrication
and characterization of planar electrochemical cell and its application as glucose sensor, 59
- Gas sensing
acoustically-driven cantilever for, 131
- Gas-sensing characteristics
of Li^+ -doped and undoped ZnO whiskers, 349
- Gas sensors
electrical conduction in solid-state, 373
- Gauge
four-terminal
for pressure sensors, geometric design rules for, 149
quasi-circular and square diaphragm Si pressure sensors, 247
- Geometric design rules
of four-terminal gauge for pressure sensors, 149

- Glucose microelectrode
 planar amperometric enzyme-based, 157
- Glucose sensor(s)
 using electron mediators immobilized
 on polypyrrole-modified electrode,
 micro, 297
 fabrication and characterization of
 planar electrochemical cell and its
 application as, 59
- Hall plates
 offset reduction in; simulations and
 experiments, 179
- Hearing aids
 Si microphones and earphones for, 33
- Hydrocarbons
 exposure monitor for chlorinated,
 based on conductometry using Pb
 phthalocyanine films, 45
- Hydrogen gas-sensing
 mechanism of, at low temperatures
 using Rh/TiO₂ systems, 337
- Imaging
 sensing system for non-destructive,
 using externally Compton-scattered
 gamma photons, 1
- Immunological precipitate
 influence of, on d.c. and a.c. behaviour
 of ISFET, 119
- ISFET(s)
 influence of immunological precipitate
 on d.c. and a.c. behaviour of, 119
 long-life multiple-, with polymeric
 gates, 329
 novel Urushi matrix Na, 285
- Lead phthalocyanine films
 exposure monitor for chlorinated
 hydrocarbons based on conducto-
 metry using, 45
- Lithium
 gas-sensing characteristics of Li⁺-doped
 and undoped ZnO whiskers, 349
- Magnesium
 preparation and properties of ceramic
 sensor elements based on MgCr₂O₄,
 407
- Microcomputer interfacing
 three-terminal integrated temperature
 transducer with, 195
- Microelectrode
 planar amperometric enzyme-based
 glucose, 157
- Micromachining
 of Si, batch-fabricated non-reverse
 valve with cantilever beam manu-
 factured by, 389
- Microphones
 Si, and earphones for hearing aids, 33
- Monitoring of flow
 in pipes, integrated sensor for non-
 invasive, 259
- Neural-network pattern recognition
 odour-sensing system using quartz-
 resonator sensor array and, 291
- Odour-sensing system
 using quartz-resonator sensor array
 and neural-network pattern recog-
 nition, 291
- Offset reduction
 in Hall plates; simulations and experi-
 ments, 179
- Optical displacement transducer
 for aerospace applications, 233
- Optical sensor
 temporal coherence-based, 17
- Oxygen sensor(s)
 Eu chromite doped with Ca chromite
 for electrochemical, 115
 made of reactively sputtered ZnO,
 thin-film, 269
- Photons
 Compton-scattered gamma, sensing
 system for non-destructive imaging
 using externally, 1
- Piezoresistance
 of Si, effect of shear stress on, 221
- Pipes
 monitoring of flow in, integrated
 sensor for non-invasive, 259
- Polymeric gates
 long-life multiple-ISFETs with, 329
- Polypyrrole
 -modified electrode, micro glucose
 sensors using electron mediators
 immobilized on, 297
- Pressure sensor(s)
 four-terminal-gauge quasi-circular and
 square diaphragm Si, 247
 geometric design rules of four-terminal
 gauge for, 149
 interchangeable Si, with on-chip com-
 pensation circuitry, 239

- Reducing gases
 - surface processes in detection of, with SnO_2 -based devices, 71
- REFETs
 - how electrical and chemical requirements for, may coincide, 309
- Rhodium
 - mechanism of H gas-sensing at low temperatures using Rh/ TiO_2 systems, 337
- Sensing system
 - for non-destructive imaging using externally Compton-scattered gamma photons, 1
- Sensor array
 - odour-sensing system using quartz-resonator, and neural-network pattern recognition, 291
- Sensor elements
 - preparation and properties of ceramic, based on MgCr_2O_4 , 407
- Shear stress
 - on piezoresistance of Si, effect of, 221
- Silicon
 - anisotropic etching of (100) compensating corner undercutting in, 207
 - microphones and earphones for hearing aids, 33
 - piezoresistance of, effect of shear stress on, 221
 - pressure sensors
 - four-terminal-gauge quasi-circular and square diaphragm, 247
 - with on-chip compensation circuitry, interchangeable, 239
- Sodium
 - ISFET, novel Urushi matrix, 285
- Surface processes
 - in detection of reducing gases with SnO_2 -based devices, 71
- Temperature transducer
 - three-terminal integrated, with microcomputer interfacing, 195
- Temporal coherence-based optical sensor, 17
- Thermodynamics
 - of sensors, 167
- Tin dioxide
 - surface processes in detection of reducing gases with SnO_2 -based devices, 71
- Tin-oxide sensors
 - application of discrimination techniques to alcohols and tobaccos using, 361
- Titanium
 - mechanism of H gas-sensing at low temperatures using Rh/ TiO_2 systems, 337
- Tobaccos
 - application of discrimination techniques to alcohols and, using tin-oxide sensors, 361
- Transducer(s)
 - optical displacement, for aerospace applications, 233
 - three-terminal integrated temperature, with microcomputer interfacing, 195
- Ultraviolet-sensor applications
 - boron nitride thin films for, 397
- Urushi matrix
 - Na ISFET, novel, 285
- Valve
 - batch-fabricated non-reverse, with cantilever beam manufactured by micromachining of Si, 389
- Zinc
 - gas-sensing characteristics of Li^+ -doped and undoped ZnO whiskers, 349
 - thin-film O sensors made of reactively sputtered ZnO, 269

